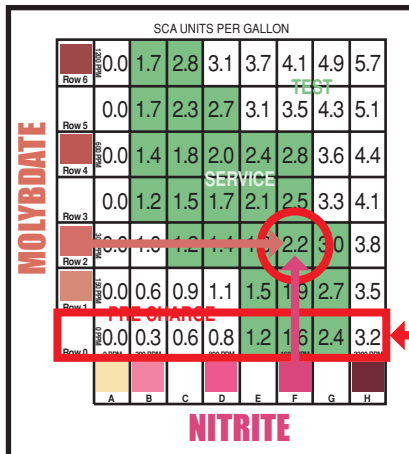
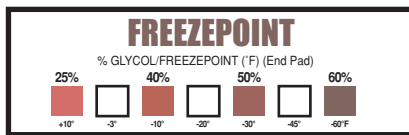
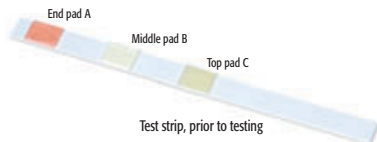
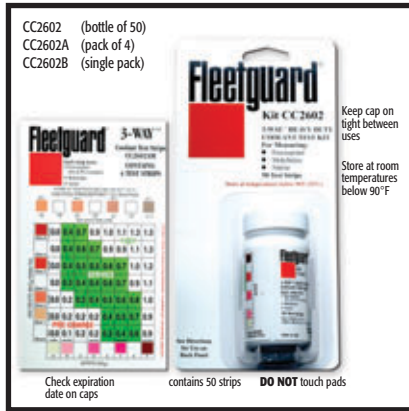


Fleetguard®



3-Way™ Coolant Test Strips

For Heavy Duty Diesel Engines



| COOLANT SYSTEM ADDITIVES | | |
|--------------------------|------------|--------|
| DCA2 | SIZE | DCA4 |
| DCA30L | Pint | DCA60L |
| DCA35L | 1/2 Gallon | DCA65L |
| DCA40L | Gallon | DCA70L |
| DCA45L | 5 Gallon | DCA75L |
| DCA50L | 55 Gallon | DCA80L |

Pre-Test Instructions

Recommended Testing Frequency - At every lube service.

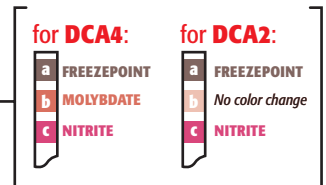
- Collect coolant sample from the radiator or petcock. **DO NOT collect from the coolant recovery or overflow system.** Coolant must be between 50°F and 130°F when tested. Room temperature is best.
- For accurate results—test must be completed within 75 seconds. Follow recommended test times. Use a stopwatch.
- Record and track results.

Test Instructions

- Remove one strip from bottle and replace cap immediately. **DO NOT touch the pads on the end of the strip. DISCARD KIT** if Nitrite test pads of unused strips have turned brown.

- Dip strip for **1 SECOND** in coolant sample, remove, and *shake strip briskly* to remove excess liquid.

- 45 SECONDS** after dipping strip, compare results to color chart and record in the following order:



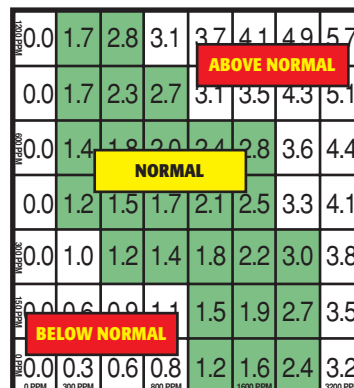
- All three readings must be completed **NO LATER THAN 75 SECONDS** after dipping strip.

- If uncertain about the color match, pick the **LOWER** numbered block (ex.: if nitrite color is not F, use column E).

- The amount of coolant additive units per gallon in the cooling system is given where the following occurs:

for **DCA4**: the **MOLYBDATE** level intersects the **NITRITE** level
for **SCA**: the **NITRITE** column intersects Row 0

Maintenance Actions Based on Results



- ABOVE NORMAL** Replace the coolant filter with a non-charged filter until the additive concentration falls below 3 units per gallon when tested at every subsequent oil drain interval.
- NORMAL** Continue to replace the coolant filter at your normal interval.
- BELOW NORMAL** Replace the coolant filter and add 1 pint of additive per each 4 gallons of coolant (equals 1.2 units per gallon).

MAINTAINING A 50/50 COOLANT/WATER MIX

CHART FOR MAINTAINING A 50/50 ETHYLENE GLYCOL COOLANT

Over-Concentrated

FREEZE POINT DEG. F VS. PERCENT CONCENTRATE

| SYSTEM CAPACITY | Under-Concentrated | | | | | | | | | | | Over-Concentrated | | | | | | | | | | | SYSTEM CAPACITY |
|-----------------|--|------|------|------|------|-----|-----|------|------|------|------|------------------------------------|------|------|------|------|------|------|-----|--------|--|--|-----------------|
| | DRAIN COOLANT, ADD CONCENTRATE / GALLONS | | | | | | | | | | | DRAIN COOLANT, ADD WATER / GALLONS | | | | | | | | | | | |
| GALLON | +32F | +25F | +20F | +15F | +10F | +5F | -5F | -12F | -23F | -34F | -50F | -65F | -75F | -84F | -70F | -55F | -43F | -30F | -6F | GALLON | | | |
| 10 | 5 | 4 | 4 | 4 | 3 | 3 | 2 | 2 | 1 | 0 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 10 | | | |
| 12 | 6 | 5 | 5 | 5 | 4 | 3 | 3 | 2 | 1 | 0 | 1 | 2 | 3 | 3 | 4 | 5 | 5 | 5 | 6 | 12 | | | |
| 14 | 7 | 6 | 6 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 6 | 6 | 7 | 14 | | | |
| 16 | 8 | 7 | 7 | 6 | 5 | 5 | 4 | 3 | 1 | 0 | 1 | 3 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 16 | | | |
| 18 | 9 | 8 | 7 | 7 | 6 | 5 | 4 | 3 | 2 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 18 | | | |
| 20 | 10 | 9 | 8 | 8 | 7 | 6 | 5 | 3 | 2 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 20 | | | |

| COOLANT FILTERS | | | |
|-----------------|--------|-------|-------------------|
| DCA2 | DCA4 | UNITS | APPLICATION |
| WF2107 | WF2107 | BLANK | Cummins/Universal |
| WF2050 | WF2070 | 2 | Cummins/Universal |
| WF2051 | WF2071 | 4 | Cummins/Universal |
| WF2052 | WF2072 | 6 | Cummins/Universal |
| WF2053 | WF2073 | 8 | Cummins/Universal |
| WF2067 | WF2074 | 12 | Cummins/Universal |
| WF2054 | WF2075 | 15 | Cummins/Universal |
| WF2055 | WF2076 | 23 | Cummins/Universal |
| WF2078 | WF2078 | BLANK | Mack |
| N/A | WF2083 | 4 | Mack |
| N/A | WF2082 | 6 | Mack |
| N/A | WF2015 | 8 | Mack |
| N/A | WF2022 | 11 | Mack |
| WF2109 | WF2109 | BLANK | Volvo |
| WF2096 | N/A | 4 | Volvo |
| N/A | WF2108 | 8 | Volvo |
| WF2131 | WF2121 | 1yr | Nalcool NF2088 |



* Quik-Chek CC2607B will check coolant stability
 * Water-Chek CC2609 will check to see if your shop water meets TMC specs



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Check Fleetguard Product Guide or web catalog at www.fleetguard.com
 for full water filter coverage.

For more information, call our Customer Assistance Center at 1-800-22FILTER (1-800-223-4583)
 fax 1-800-999-8664 or visit us at www.fleetguard.com